

Summary of Monthly Normals
1991-2020

Generated on 04/29/2024

Current Location: Elev: 1355 ft. Lat: 46.8372° N Lon: 95.8375° W
Station: DETROIT LAKES 1 NNE, MN US USC00212142

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (above)									
Month	Daily Max	Daily Min	Mean	Long Term Max Std Dev	Long Term Min Std Dev	Long Term Avg Std Dev	55	57	60	65	70	72	55	57	60	65	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
01	17.2	-3.6	6.8	5.4	7.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	1493.7	1555.8	1648.9	1803.9	0.0	0.0	0.0	25.7	30.8	16.0
02	22.7	0.2	11.5	6.3	8.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	1219.2	1275.3	1359.4	1499.4	0.0	0.0	0.4	19.5	27.6	12.2
03	35.5	15.4	25.4	6.1	6.1	5.9	0.9	0.4	0.1	0.0	0.0	0.0	917.1	978.5	1071.2	1226.1	0.0	0.0	5.7	10.3	27.0	4.6
04	52.0	29.1	40.6	5.6	3.8	4.6	11.4	6.9	2.9	0.6	0.1	0.0	444.9	500.4	586.4	734.1	0.0	0.1	18.9	1.6	17.1	0.1
05	66.4	42.4	54.4	3.6	3.0	3.1	104.1	76.9	45.4	16.2	3.5	1.3	122.8	157.6	219.0	344.8	0.0	0.4	29.3	0.0	3.9	0.0
06	75.5	53.1	64.3	2.8	2.7	2.5	288.0	234.8	162.1	70.1	22.2	12.4	9.2	16.0	33.2	91.2	0.1	1.2	30.0	0.0	0.1	0.0
07	79.2	57.5	68.3	3.4	2.9	3.0	414.0	352.9	264.8	136.0	50.9	29.6	0.3	1.1	6.0	32.1	0.0	3.1	31.0	0.0	0.0	0.0
08	77.7	55.3	66.5	3.0	2.9	2.8	359.2	300.6	217.2	104.1	34.4	19.7	2.9	6.2	15.8	57.6	0.0	1.6	31.0	0.0	0.0	0.0
09	69.5	46.3	57.9	3.2	3.3	2.8	155.0	120.3	77.2	28.8	7.9	3.8	68.2	93.5	140.3	241.9	0.0	0.8	29.8	0.0	1.9	0.0
10	53.1	33.5	43.3	4.8	3.0	3.7	17.1	10.5	4.7	0.9	0.1	0.0	379.7	435.2	522.3	673.6	0.0	0.0	21.5	0.5	12.2	0.0
11	36.7	19.2	27.9	6.2	5.0	5.5	0.2	0.1	0.0	0.0	0.0	0.0	811.7	871.6	961.5	1111.5	0.0	0.0	6.1	10.0	25.6	1.7
12	22.4	5.6	14.0	5.8	6.4	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1270.8	1332.9	1425.9	1580.9	0.0	0.0	0.2	22.4	30.6	9.9
Summary	50.7	29.5	40.1	4.7	4.6	4.4	1350	1103	774	357	119	67	6740	7224	7990	9397	0.1	7.2	203.9	90.0	176.8	44.5

Empty or blank cells indicate data is missing or insufficient occurrences to compute value

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Precipitation (in.)									
	Totals	Mean Number of Days				Precipitation Probabilities Probability that precipitation will be equal to or less than the indicated amount			
	Means	Daily Precipitation				Monthly Precipitation vs. Probability Levels			
Month	Mean	>= 0.01	>= 0.10	>= 0.50	>= 1.00	0.25	0.50	0.75	
01	0.82	6.2	2.0	0.1	0.0	0.36	0.78	1.09	
02	0.66	7.2	2.4	0.1	0.0	0.35	0.60	0.82	
03	0.96	7.1	3.0	0.6	0.0	0.51	0.91	1.36	
04	2.03	7.8	4.4	1.3	0.4	1.41	1.89	2.56	
05	3.73	11.9	7.9	2.7	0.7	2.47	3.49	4.33	
06	4.90	13.1	8.3	2.9	1.1	3.38	4.76	6.19	
07	4.35	10.9	7.1	2.5	1.1	3.02	3.56	4.91	
08	3.26	9.2	5.9	2.3	0.9	2.33	3.01	4.28	
09	3.55	10.2	6.5	2.2	1.1	2.24	3.33	4.36	
10	2.84	9.6	6.1	2.0	0.6	1.65	2.47	3.93	
11	1.37	7.2	3.2	0.7	0.0	0.45	1.12	1.71	
12	0.98	9.4	3.6	0.4	0.0	0.42	0.82	1.30	
Summary	29.45	109.8	60.4	17.8	5.9	18.59	26.74	36.84	

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Snow (in.)													
	Totals	Mean Number of Days									Snow Probabilities Probability that snow will be equal to or less than the indicated amount		
	Means	Snowfall >= Thresholds					Snow Depth >= Thresholds				Monthly Snow vs. Probability Levels Values derived from the incomplete gamma distribution.		
Month	Snowfall Mean	0.01	1.0	3.0	5.00	10.00	1	3	5	10	.25	.50	.75
01	8.30	6.5	3.0	0.9	0.3	0.0					5.60	6.90	9.60
02	9.40	6.3	3.0	0.9	0.2	0.0					4.70	8.60	10.60
03	7.70	4.2	2.5	0.8	0.4	0.0					2.50	6.60	11.90
04	5.30	2.1	1.2	0.6	0.3	0.1					0.80	3.70	6.20
05	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
06	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
07	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
08	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
09	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
10	1.10	1.0	0.4	0.1	0.0	0.0					0.00	0.50	1.50
11	4.80	4.1	1.7	0.7	0.0	0.0					0.60	6.00	8.00
12	11.00	8.1	4.4	1.0	0.5	0.0					6.70	11.10	14.00
Summary	47.6	32.3	16.2	5.0	1.7	0.1	0.0	0.0	0.0	0.0	20.9	43.4	61.8

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Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	0.0	0.8	19.8	142.0	453.5	728.7	878.6	821.2	538.3	177.7	22.0	0.2
45	0.0	0.1	8.0	75.1	315.0	578.8	723.7	666.3	394.8	95.2	7.4	0.0
50	0.0	0.0	3.1	32.5	195.2	430.5	568.7	511.6	262.6	43.7	1.4	0.0
55	0.0	0.0	0.9	11.4	104.1	288.0	414.0	359.2	155.0	17.1	0.2	0.0
60	0.0	0.0	0.1	2.9	45.4	162.1	264.8	217.2	77.2	4.7	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.0	0.6	16.0	101.6	278.6	452.5	567.6	522.8	326.9	102.3	16.3	0.1

Growing Degree Units (Accumulated Monthly)												
40	0	1	21	163	616	1345	2223	3045	3583	3761	3783	3783
45	0	0	8	83	398	977	1701	2367	2762	2857	2864	2864
50	0	0	3	36	231	661	1230	1742	2004	2048	2049	2049
55	0	0	1	12	116	404	818	1178	1333	1350	1350	1350
60	0	0	0	3	48	210	475	692	770	774	774	774
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	1	17	118	397	849	1417	1940	2267	2369	2385	2385

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86.
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